

CHECKLIST TO DESIGNATE AREAS OF EVALUATION FOR REQUESTS FOR PROPOSAL (RFP)

| | | | |
|---|---|---|---|
| MDOT PROJECT MANAGER Patricia Johnson | | JOB NUMBER (JN) 109981 | CONTROL SECTION (CS) 83013, 83012, 83052 |
| DESCRIPTION Design of a modern roundabout for the intersection of M-115 & M-37 (east junction), Wexford County | | | |
| MDOT PROJECT MANAGER: Check all items to be included in RFP WHITE = REQUIRED GRAY SHADING = OPTIONAL | | CONSULTANT: Provide only checked items below in proposal | |
| Check the appropriate Tier in the box below | | | |
| <input type="checkbox"/> TIER I (\$25,000-\$99,999) | <input type="checkbox"/> TIER II (\$100,000-\$250,000) | <input type="checkbox"/> TIER III (>\$250,000) | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Understanding of Service |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Innovations</i> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <i>Safety Program</i> |
| N/A | <input type="checkbox"/> | <input type="checkbox"/> | Organizational Chart |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Qualifications of Team |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Past Performance |
| Not required As part of Official RFP | Not required As part of Official RFP | <input type="checkbox"/> | Quality Assurance/Quality Control |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Location: The percentage of work performed in Michigan will be used for all selections unless the project is for on-site inspection or survey activities, then location should be scored using the distance from the consultant office to the on-site inspection or survey activity. |
| N/A | N/A | <input type="checkbox"/> | Presentation |
| N/A | N/A | <input type="checkbox"/> | Technical Proposal (if Presentation is required) |
| 3 pages (MDOT Forms not counted) (No Resumes) | 7 pages (MDOT Forms not counted) | 19 pages (MDOT Forms not counted) | Total maximum pages for RFP not including key personnel resumes |

The Michigan Department of Transportation (MDOT) is seeking professional services for the project contained in the attached scope of services.

If your firm is interested in providing services, please indicate your interest by submitting a Proposal, Proposal/Bid Sheet or Bid Sheet as indicated below. The documents must be submitted in accordance with the latest "Consultant/Vendor Selection Guidelines for Service Contracts" and "Guideline for Completing a Low Bid Sheet(s)", if a low bid is involved as part of the selection process. **Referenced Guidelines are available on MDOT's website under Doing Business > Vendor/Consultant Services > Vendor/Consultant Selections.**

RFP SPECIFIC INFORMATION

BUREAU OF HIGHWAYS

BUREAU OF TRANSPORTATION PLANNING **

OTHER

THE SERVICE WAS POSTED ON THE ANTICIPATED QUARTERLY REQUESTS FOR PROPOSALS

NO

YES

DATED _____ THROUGH _____

Prequalified Services – See page ___ of the attached Scope of Services for required Prequalification Classifications.

Non-Prequalified Services - If selected, the vendor must make sure that current financial information, including labor rates, overhead computations, and financial statements, if overhead is not audited, is on file with MDOT's Office of Commission Audits. This information must be on file for the prime vendor and all sub vendors so that the contract will not be delayed. **Form 5100J is required with Proposal for firms not currently prequalified with MDOT**

Qualifications Based Selection – Use Consultant/Vendor Selection Guidelines

For all Qualifications Based Selections, the section team will review the information submitted and will select the firm considered most qualified to perform the services based on the proposals. The selected vendor will be contacted to confirm capacity. Upon confirmation, that firm will be asked to prepare a priced proposal. Negotiations will be conducted with the firm selected.

****For RFP's that originate in Bureau of Transportation Planning only**, a priced proposal must be submitted at the same time as, but separate from, the proposal. Submit directly to the Contract Administrator/Selection Specialist, Bureau of Transportation Planning (see address list, page 2). The priced proposal must be submitted in a sealed envelope, clearly marked "**PRICE PROPOSAL.**" The vendor's name and return address MUST be on the front of the envelope. The priced proposal will only be opened for the highest scoring proposal. Unopened priced proposals will be returned to the unselected vendor(s). Failure to comply with this procedure may result in your priced proposal being opened erroneously by the mail room.

For a cost plus fixed fee contract, the selected vendor must have a cost accounting system to support a cost plus fixed fee contract. This type of system has a job-order cost accounting system for the recording and accumulation of costs incurred under its contracts. Each project is assigned a job number so that costs may be segregated and accumulated in the vendor's job-order accounting system.

Qualifications Review / Low Bid - Use Consultant/Vendor Selection Guidelines. See Bid Sheet Instructions for additional information.

For Qualification Review/Low Bid selections, the selection team will review the proposals submitted and post the date of the bid opening on the MDOT website. The notification will be posted at least two business days prior to the bid opening. Only bids from vendors that meet proposal requirements will be opened. The vendor with the lowest bid will be selected. The selected vendor may be contacted to confirm capacity.

Best Value - Use Consultant/Vendor Selection Guidelines. See Bid Sheet Instructions below for additional information. The bid amount is a component of the total proposal score, not the determining factor of the selection.

Low Bid (no qualifications review required - no proposal required.) See Bid Sheet Instructions below for additional instructions.

BID SHEET INSTRUCTIONS

A bid sheet(s) must be submitted in accordance with the "Guideline for Completing a Low Bid Sheet(s)" (available on MDOT's website). The Bid Sheet(s) is located at the end of the Scope of Services. Submit bid sheet(s) separate from the proposal, to the address indicated below. The bid sheet(s) must be submitted in a sealed manila envelope, clearly marked "**SEALED BID.**" The vendor's name and return address MUST be on the front of the envelope. Failure to comply with this procedure may result in your bid being opened erroneously by the mail room and the bid being rejected from consideration.

PROPOSAL SUBMITTAL INFORMATION

| | | |
|---|-----------------------|----------|
| REQUIRED NUMBER OF COPIES FOR PROJECT MANAGER | PROPOSAL/BID DUE DATE | TIME DUE |
|---|-----------------------|----------|

PROPOSAL AND BID SHEET MAILING ADDRESSES

Mail the multiple proposal bundle to the MDOT Project Manager or Other indicated below.

MDOT Project Manager

MDOT Other

Mail one additional stapled copy of the proposal to the Lansing Office indicated below.

| Lansing Regular Mail | OR | Lansing Overnight Mail |
|---|-----------|--|
| Secretary, Contract Services Div - B470 Michigan Department of Transportation PO Box 30050 Lansing, MI 48909 | | Secretary, Contract Services Div - B470 Michigan Department of Transportation 425 W. Ottawa Lansing, MI 48933 |
| Contract Administrator/Selection Specialist Bureau of Transportation Planning B470 Michigan Department of Transportation PO Box 30050 Lansing, MI 48909 | | Contract Administrator/Selection Specialist Bureau of Transportation Planning B470 Michigan Department of Transportation 425 W. Ottawa Lansing, MI 48933 |

GENERAL INFORMATION

Any questions relative to the scope of services must be submitted by e-mail to the MDOT Project Manager. Questions must be received by the Project Manager at least four (4) working days prior to the due date and time specified above. All questions and answers will be placed on the MDOT website as soon as possible after receipt of the questions, and at least three (3) days prior to the RFP due date deadline. The names of vendors submitting questions will not be disclosed.

MDOT is an equal opportunity employer and MDOT DBE firms are encouraged to apply. The participating DBE firm, as currently certified by MDOT's Office of Equal Opportunity, shall be listed in the Proposal

MDOT FORMS REQUIRED AS PART OF PROPOSAL SUBMISSION

5100D – Request for Proposal Cover Sheet

5100J – Consultant Data and Signature Sheet (Required only for firms not currently prequalified with MDOT)

(These forms are not included in the proposal maximum page count.)

Michigan Department of Transportation

SCOPE OF SERVICE FOR DESIGN SERVICES Revised 5100H form 10/25/2011

CONTROL SECTION(S): 83013 (83012, 83052)

JOB NUMBER(S): 109981C

PROJECT LOCATION:

The project is located at the intersection of M-115 and M-37/13 Road just east of the village of Mesick, Springville and Antioch Townships, Wexford County.
The project length is approximately 0.28 miles.

PROJECT DESCRIPTION:

This project will be for the design of a modern roundabout at this intersection. This design will call for the removal of the existing hot mix asphalt intersection and the replacement with a modern roundabout constructed with a hot mix asphalt surface.

This design will also include the necessary approach, driveway and drainage modifications as well as landscaping and lighting. A fenced snowmobile corridor in the southwest quadrant and snowmobile crossing west of the roundabout will also be included.

ANTICIPATED SERVICE START DATE: January 23, 2012

ANTICIPATED SERVICE COMPLETION DATE: August 15, 2012

PRIMARY PREQUALIFICATION CLASSIFICATION(S):

Road and Street Design

SECONDARY PREQUALIFICATION CLASSIFICATION(S):

Maintaining Traffic Plans & Provisions
Pavement Marking Plans
Permanent Non-Freeway Traffic Signing Plans
Hydraulics
Landscape Architecture
Freeway Lighting (**Note:** Although, project is not on the freeway qualifications are req'd)
Traffic Capacity Analysis & Geometric Studies

DBE REQUIREMENT: 0%

MDOT PROJECT ENGINEER MANAGER:

Patricia Johnson, Operations Engineer
Cadillac TSC
7915 US-131 Highway
Cadillac, MI 49601
Phone Number: 231-775-3486 ext. 318
Fax Number: 231-775-0301
E-mail: Johnsonp4@michigan.gov

CONSTRUCTION COST:

A. The estimated cost of construction is:

| | | |
|-----|---|---------------------|
| 1. | Mainline Pavement | \$ 675,000 |
| 2. | Geometric Improvement | \$ 50,000 |
| 4. | Drainage | \$ 35,000 |
| 7. | Maintaining Traffic | \$ 55,000 |
| 10. | Permanent Pavement Markings/Signs/Signals | \$ 35,000 |
| 11. | Miscellaneous | <u>\$ 190,000</u> |
| | CONSTRUCTION TOTAL | \$ 1,040,000 |

B. The estimated cost of real estate is: \$ 0

The Consultant is expected to design the project within the programmed total amount.

If at any time the estimated cost of construction varies by more than 5% of the current programmed amount, then the Consultant will be required to submit a letter to the MDOT Project Manager justifying the changes in the construction cost estimate.

REQUIRED MDOT GUIDELINES AND STANDARDS:

Work shall conform to current MDOT, FHWA, and AASHTO practices, guidelines, policies, and standards (i.e., Road Design Manual, Standard Plans, Drainage Manual, Roadside Design Guide, A Policy on Geometric Design of Highways and Streets, Michigan Manual of Uniform Traffic Control Devices, etc.).

NOTE: A process change mandated by federal audit of MDOT’s design process puts the Omissions and Errors Check Meeting after the Plan Completion. Please keep this in mind when preparing your schedule. See MDOT Road Design Manual, Chapter 14 – Procedures – Section 14.54 for corroboration. See “For Your Information” contacts at the end of this document for more info or questions.

Consultant is required to use MDOT’s current version of Bentley MicroStation for CADD applications and Bentley GEOPAK for road design. Consultant shall comply with all MDOT

CADD standards and file naming conventions.

CONSULTANT RESPONSIBILITIES:

Complete the design of this project including, but not limited to the following:

The Consultant must adhere to all applicable OSHA and MIOSHA safety standards, including the appropriate traffic signs for the activities and conditions for this job and perform field operations in accordance with the Department's Personal Protective Equipment (PPE) policy as stated in the MDOT Guidance Document #10118.

Meet with the MDOT Project Manager to review project, location of data sources and contact persons, and review relevant MDOT operations. The Consultant shall review and clarify project issues, data needs and availability, and the sequence of events and team meetings that are essential to complete the design by the project plan completion date. Attention shall be given to critical target dates that may require a large lead time, such as geotechnical requirements, ROW submittal dates, Railroad coordination requirements, utility conflict resolution, local agency meetings, etc.

- A. Prepare required plans, typical cross-sections, details, and specifications required for design and construction. **See attachment B for concept drawing.**
- B. Compute and verify all plan quantities.
- C. Prepare staging plans and special provisions for maintaining traffic during construction.
- D. Design and prepare electrical plans for affected lighting.
- E. Provide solutions to any unique problems that may arise during the design of this project.
- F. The Consultant may be required to provide Design Services during the construction phase of this project. If Construction Assistance is required, then a separate authorization for those services will be issued.
- G. Maintain a Design Project Record which includes a history of significant events (changes, comments, etc.) which influenced the development of the plans, dates of submittals and receipt of information.
- H. If excavation is required, submit the excavation locations which may contain contamination. Project Manager then can proceed in requesting a Preliminary Project Assessment (PPA).

- I. The Consultant shall be required to prepare and submit a CPM network for the construction of this project.
- J. The Consultant representative shall record and submit type-written minutes for all project related meetings to the MDOT Project Manager within two weeks of the meeting. The Consultant shall also distribute the minutes to all meeting attendees. MDOT will provide and distribute official meeting minutes for the Plan Review Meeting.
- K. The Consultant will provide to MDOT at the scheduled submittal dates, copies of the required specifications and plan set materials in Adobe PDF format for distribution by MDOT for all reviews for this project.
- L. Prepare and submit electronically (native format or Adobe PDF) any information, calculations, hydraulic studies, or drawings required by MDOT for acquiring any permit (ie. NPDES, DEQ, etc), approvals (i.e. county drain commission) and related mitigation. MDOT will submit permit requests.
- M. Attend any project-related meetings as directed by the MDOT Project Manager.
- N. Attend information meetings (i.e., public hearings, open houses, etc.) with the public and public officials to assist in responding to concerns and questions. May require the preparation of displays such as maps, marked-up plans, etc.
- O. The Consultant shall incorporate the utility information in the design plans.
- P. The MDOT Project Manager shall be the official MDOT contact person for the Consultant **and shall be made aware of all communications regarding this project**. The Consultant must either address or send a copy of all correspondence to the MDOT Project Manager. This includes all Subcontractor correspondence and verbal contact records.
- Q. The Consultant shall contact the MDOT Project Manager whenever discoveries or design alternatives have the potential to require changes in the scope, limits, quantities, costs, or right-of-way of the project.

LANDSCAPING

The Consultant will be responsible for designing the landscaping for the roundabout. Landscaping of roundabouts plays an important role in improving the safety and aesthetics of the facility. Landscaping has a number of functional purposes:

- Makes the center island more conspicuous;
- Encourages speed reduction on the intersection approaches;
- Focuses driver attention on key conflict areas by blocking the view of other areas; and
- Discourages pedestrian traffic through the center island.

Landscaping should be designed to minimize roadside hazards and to maintain adequate stopping and intersection sight distance throughout the roundabout. Large fixed objects including trees that will grow to more than 4 inch diameter, walls, planters, benches or “street art” should not be placed in splitter or central islands or clear zone areas.

Comply with the intersection sight distance as described in the FHWA Roundabout Guide, section 6.3.10. Per Section 6.3 of the MDOT Roundabout Design Guidance Document, only low growing plants with a maximum height of 18 inches should be planted within the restricted sight areas.

Landscaping should include plants that are appropriate for the USDA hardiness zone; are both drought and salt-tolerate and require minimal maintenance. The central island may be planted with small trees, shrubs and ground covers that do not require mowing. Plant materials shall not be placed so as to impede snow removal practices.

Low-growing plantings in the splitter islands and approaches can benefit public safety and enhance the visual quality of the intersection; however, if the splitter islands are less than five feet wide, consider colored/stamped concrete to delineate the islands. In general, unless the splitter islands are very long or wide they should not contain trees, shrubs, planters, or light poles.

UTILITIES

The Consultant shall be responsible for showing on the plans the location and names of all existing utilities within the limits of the project. The Consultant shall make utility modifications to the plans or design details as directed by the MDOT Utility Permits Engineer and/or Project Manager. Any utility conflicts identified by the Consultant shall be brought to attention of the MDOT Utility Permits Engineer immediately. The Consultant shall attend any utility meetings called to ensure that the concerns are addressed on the plans involving utilities.

TRAFFIC CONTROL

The Consultant shall be responsible for all traffic control required to perform the tasks as outlined in this Scope of Design Services. **See attachment A for road safety audit.**

MDOT PERMITS

The Consultant shall be responsible for obtaining up to date access permits and pertinent information for tasks in MDOT Right of Way (ROW). This information can be obtained through Chad Roberts, Cadillac TSC Utility and Permits Engineer, at (231) 775-3486.

MONTHLY PROGRESS REPORT

On the first of each month, the Consultant Project Manager shall submit a monthly project progress report to the Project Manager.

MDOT RESPONSIBILITIES:

- A. Schedule and/or conduct the following:
 - 1. Project related meetings.
 - 2. The Plan Review
 - 3. Utility Meetings
 - 4. Quantity summary sheets and final item cost estimates.
 - 5. Packaging of plans and proposal.
- B. Furnish Special Details and pertinent reference materials.
- C. Furnish prints of an example of a similar project and old plans of the area, if available. Furnish the E.A.
- D. Obtain all permits for the project as outlined in previous section.
- E. Furnish survey information and soil borings.
- F. Coordinate any necessary utility relocation.
- G. Furnish FTP site for software download and instructions for the MDOT Stand Alone Proposal Estimator's Worksheet (SAPW).

DELIVERABLES:

The Consultant shall deliver all computer files associated with the project in their native format (spreadsheets, CADD files, GEOPAK files, etc.) on DVD, CD or uploaded to ProjectWise, as

directed by the MDOT Project Manager. All CADD/GEOPAK files shall be created and identified with standard MDOT file names as shown in Appendix A of the Road Design Manual. It is the Consultant's responsibility to obtain up to date MicroStation and GEOPAK seed/configuration files necessary to comply with MDOT's CADD standards which are posted to the bulletin board system. When the use of GEOPAK road design software is necessary to develop plans all pay items shall be placed into the CADD file using GEOPAK's Design and Computation Manager so that Quantity Manager can be used to transfer pay item information to SAPW/Trns*port. Any CADD/GEOPAK files that do not conform to MDOT standards will be returned to the Consultant for correction at the Consultant's expense.

Proposal documents shall be submitted in their native format with standard naming conventions as well as combined into one Adobe PDF file in the sequence specified by MDOT. To provide text search capabilities the combined proposal shall be created by converting native electronic files to PDF. Scanning to PDF is discouraged except in instances where it is necessary to capturing a legally signed document or a hard copy version of a document is all that exists.

Full plan sheet scale shall be 1 inch = 20 ft. Plan files shall be submitted in their native design format with standard naming conventions as well as plotted into a combined Adobe PDF file. Plan sheets shall be plotted to Adobe PDF with full text search and level on/off capabilities in half size (11" x 17") formats. A full size title sheet shall be plotted stamped and signed then scanned for inclusion with the Adobe PDF set. The original title sheet will be sent to the MDOT Project Manager.

Stand Alone Proposal Estimator's Worksheet (SAPW) shall be used to generate the txt and csv files necessary for import into the Trns*port bid letting software. The SAPW files shall be transmitted electronically by the method specified by the MDOT Project Manager.

The project construction, removal and profile sheets will require a ratio (scale) of **1:40 (English Units)**.

Other plan sheets that are required for this project shall be completed by the Consultant. These include, but are not limited to the following plan sheets:

- A. The title sheet. MDOT will provide a map of the area to be used for the title sheet. The Consultant shall be responsible for any revisions to the title sheet and the title sheet and map shall meet MDOT format and layout guidelines.
- B. Note Sheet.
- C. Typical Cross-Sections.
- D. Project specific Special Details.
- E. Construction staging and traffic control plans.

- F. Detail grade sheets for critical areas.
- G. Landscaping plan(s)
- H. Pavement marking plan(s).
- I. Staging plan and detour sheets.
- J. Electrical plan sheets.

The Consultant shall use the following events to prepare the proposed implementation schedule as required in the Guidelines for the Preparation of Responses on Assigned Design Services Contracts. These dates shall be used in preparing the Consultant's Monthly Progress Reports.MDOT

MDOT PRECONSTRUCTION TASKS CONSULTANT CHECKLIST

Version 6

Updated
05/18/2011

Please indicate with a check in the box next to each task number whether you believe that task will require consultant involvement on the job. Milestones (a specific event at a point in time) are italicized and underlined. See the [P/PMS Task Manual](#) for more details. Scheduling assistance may be accomplished with estimated completion dates. While not part of P/PMS, an Authorization Milestone and Post-Design Tasks have been

included for your reference.

STUDY (EARLY PRELIMINARY ENGINEERING)

| | | P/PMS TASK NUMBER AND DESCRIPTION | DATE TO BE COMPLETED BY (mm/dd/yyyy) | |
|------------------------------------|-------------------------------------|--|--|----------|
| YES | NO | CONSULTANT CONTRACT AUTHORIZATION/EXECUTION | / | / |
| <u>EPE SCOPING ANALYSIS</u> | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2100 Scope Verification and Initiation of EPE Activities | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>210M Program & Project Review Board Concurrence</u> | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2115 Traffic Data Collection | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2120 Prepare Traffic Analysis Report | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2125 Traffic Capacity Analysis | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2130 Prepare Project Justification | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>213M Concurrence by Regulatory Agencies with the Purpose and Need</u> | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2140 Develop and Review Illustrative Alternatives | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2155 Request/Perform Safety Analysis | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2160 Prepare and Review EIS Scoping Document | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>211M Public Information Meeting</u> | / | / |
| <u>EPE DRAFT ANALYSIS</u> | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2310 Conduct Technical SEE Studies | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2311 Cultural Resources Survey | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2312 Recreational Survey – Section 4(f)/6(f) | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2313 Endangered Species Survey | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2314 Wetland Assessment | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2315 Wetland Mitigation | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2316 Other Technical Reports | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2321 Prepare for Aerial Photography | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2322 Finish/Print Aerial Photography | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2330 Collect EPE Geotechnical Data | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2340 Develop and Review Practical Alternatives | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>233M Aerial Photography Flight</u> | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2360 Prepare and Review EA | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>231M Approval of EA by FHWA</u> | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2370 Prepare and Review Draft EIS | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>237M Approval of Draft EIS by FHWA</u> | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2380 Distribute EA | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>232M Public Hearing for EA</u> | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2390 Distribute DEIS | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>239M Public Hearing for DEIS</u> | / | / |

MDOT PRECONSTRUCTION TASKS CONSULTANT CHECKLIST

STUDY (EARLY PRELIMINARY ENGINEERING) (cont'd)

| | | P/PMS TASK NUMBER AND DESCRIPTION | DATE TO BE COMPLETED BY (mm/dd/yyyy) | |
|--------------------------|-------------------------------------|---|---|---|
| YES | NO | | | |
| | | <u>EPE FINAL ANALYSIS</u> | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2510 Determine and Review Recommended Alternative | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>250M</u> <u>Concurrence by Regulatory Agencies with Recommended Alternatives</u> | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2525 Prepare and Review Engineering Report | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2530 Prepare and Review Request for FONSI | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>252M</u> <u>Approval of FONSI by FHWA</u> | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2540 Prepare and Review FEIS | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>254M</u> <u>Approval of FEIS by FHWA</u> | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2550 Obtain ROD | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>255M</u> <u>ROD Issued by FHWA</u> | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2570 ITS Concept of Operations | / | / |
| | | <u>CONTAMINATION INVESTIGATION</u> | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2810 Project Area Contamination Survey (PCS) | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2820 Preliminary Site Investigation (PSI) for Contamination | / | / |

PRELIMINARY ENGINEERING - DESIGN

| | | <u>DESIGN SCOPE VERIFICATION AND BASE PLAN PREPARATION</u> | | |
|--------------------------|-------------------------------------|---|---|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3130 Verify Design Scope of Work and Cost | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3310 Prepare Aerial Topographic Mapping | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3320 Conduct Photogrammetric Control Survey | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3321 Set Aerial Photo Targets | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3330 Conduct Design Survey | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3340 Conduct Structure Survey | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3350 Conduct Hydraulics Survey | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3360 Prepare Base Plans | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>311M</u> <u>Utility Notification</u> | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3361 Review and Submit Preliminary ROW Plans | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>331M</u> <u>Preliminary ROW Plans Distributed</u> | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3365 Pre-Conceptual ITS Design and Meeting | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3370 Prepare Structure Study | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3375 Conduct Value Engineering Study | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3380 Review Base Plans | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>332M</u> <u>Base Plan Review (Pre-GI Inspection)</u> | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3390 Develop the Maintaining Traffic Concepts | / | / |

MDOT PRECONSTRUCTION TASKS CONSULTANT CHECKLIST

PRELIMINARY ENGINEERING - DESIGN (cont'd)

| YES | NO | P/PMS TASK NUMBER AND DESCRIPTION | DATE TO BE COMPLETED BY (mm/dd/yyyy) |
|---|-------------------------------------|---|---|
| <u>PRELIMINARY PLANS PREPARATION</u> | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3510 Perform Roadway Geotechnical Investigation | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3520 Conduct Hydraulic/Hydrologic and Scour Analysis | / / |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3522 Conduct Drainage Study, Storm Sewer Design, and use Structural Best Management Practices | 03/19/2012 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3530 Conduct Structure Foundation Investigation | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3535 Conduct Structure Review for Architectural and Aesthetic Improvements | / / |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3540 Develop the Maintaining Traffic Plan | 03/19/2012 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3551 Prepare/Review Preliminary Traffic Signal Design Plan | / / |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3552 Develop Preliminary Pavement Marking Plan | 03/19/2012 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3553 Develop Preliminary Non-Freeway Signing Plan | 03/19/2012 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3554 Develop Preliminary Freeway Signing Plan | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3555 Prepare/Review Preliminary Traffic Signal Operations | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3570 Prepare Preliminary Structure Plans | / / |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3580 Develop Preliminary Plans | 03/19/2012 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3581 Review and Submit Final ROW Plans | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>351M Final ROW Plans Distributed</u> | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3585 Final ITS Concept Design and Meeting | / / |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3590 Review Preliminary Plans (Hold Plan Review Meeting) | 04/06/2012 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>352M THE Plan Review (Grade Inspection)</u> | 04/09/2012 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3595 Conduct ITS Structure Foundation Investigation | / / |
| <u>UTILITIES</u> | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3610 Compile Utility Information | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3615 Compile ITS Utility Information | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3650 Coordinate RR Involvement for Grade Separations | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3655 Coordinate RR Involvement for At-Grade Crossings | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3660 Resolve Utility Issues | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>360M Utility Conflict Resolution Plan Distribution</u> | / / |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>361M Utility Meeting</u> | 06/22/2012 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3670 Develop Municipal Utility Plans | / / |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3672 Develop Special Drainage Structures Plans | 06/22/2012 |

| | | | | |
|-------------------------------------|-------------------------------------|------|--|------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3675 | Develop Electrical Plans | 06/22/2012 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3680 | Preliminary ITS Communication Analysis | / / |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3690 | Power Design (Power Drop in Field) | 06/22/2012 |

MITIGATION/PERMITS

| | | | | |
|--------------------------|-------------------------------------|------|--|-----|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3710 | Develop Required Mitigation | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3720 | Assemble Environmental Permit Applications | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3730 | Obtain Environmental Permit | / / |

MDOT PRECONSTRUCTION TASKS CONSULTANT CHECKLIST

PRELIMINARY ENGINEERING - DESIGN (cont'd)

| | | P/PMS TASK NUMBER AND DESCRIPTION | | DATE TO BE COMPLETED BY |
|--------------------------------------|-------------------------------------|--|--|--------------------------------|
| YES | NO | | | (mm/dd/yyyy) |
| <u>FINAL PLAN PREPARATION</u> | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3821 | Prepare/Review Final Traffic Signal Design Plan | / / |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3822 | Complete Permanent Pavement Marking Plan | 08/07/2012 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3823 | Complete Non-Freeway Signing Plan | 08/07/2012 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3824 | Complete Freeway Signing Plan | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3825 | Prepare/Review Final Traffic Signal Operations | / / |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3830 | Complete the Maintaining Traffic Plan | 08/07/2012 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3840 | Develop Final Plans and Specifications | 08/07/2012 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>380M</i> | <i>Plan Completion</i> | 08/15/2012 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3850 | Develop Structure Final Plans and Specifications | / / |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3870 | Hold Omissions/Errors Check (OEC) Meeting | 09/06/2012 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>387M</i> | <i>Omissions/Errors Checks Meeting</i> | 08/29/2012 |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>389M</i> | <i>Plan Turn-In</i> | 12/27/2012 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3880 | CPM Quality Assurance Review | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3890 | Final ITS Communication Analysis | / / |

PRELIMINARY ENGINEERING – RIGHT OF WAY

| | | | | |
|---------------------------------------|-------------------------------------|-------------|---|-----|
| <u>EARLY RIGHT OF WAY WORK</u> | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4120 | Obtain Preliminary Title Commitments | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4130 | Prepare Marked Final Right Of Way Plans | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <i>413M</i> | <i>Approved Marked Final ROW</i> | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4140 | Prepare Property Legal Instruments | / / |
| <u>ROW ACQUISITION</u> | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4411 | Preliminary Interviews | / / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <i>441M</i> | <i>Post-Decision Meeting</i> | / / |

| | | | | | |
|------------------------------|-------------------------------------|-------------|--|---|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4412 | Real Estate Services Assignment Proposal and Fee Estimate (Form 633s) for Appraisal Work Authorization | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4413 | Appraisal Reports | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4420 | Appraisal Review Reports | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4430 | Acquire Right Of Way Parcels | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4510 | Conduct Right Of Way Survey & Staking | / | / |
| | | | | | |
| <u>ROW RELOCATION</u> | | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4710 | Relocation Assistance | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4720 | Prepare Improvement Removal Plan | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>442M</u> | <u>ROW Certification</u> | / | / |

MDOT PRECONSTRUCTION TASKS CONSULTANT CHECKLIST

POST LETTING/AWARD TASKS (for reference only)

| | | P/PMS TASK NUMBER AND DESCRIPTION | | DATE TO BE COMPLETED BY (mm/dd/yyyy) | |
|--------------------------|-------------------------------------|--|--|--|---|
| YES | NO | | | | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4810 | Complete Acquisition Process | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4820 | Manage Excess Real Estate | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4830 | Provide Post-Certification Relocation Assistance | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4910 | Conduct ROW Monumentation | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5010 | Construction Phase Engineering and Assistance | / | / |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5020 | Prepare As-Built Drawings | / | / |

FOR YOUR INFORMATION

For questions on specific tasks, refer to the P/PMS Task Manual located on the MDOT Bulletin Board System.

For assistance in accessing this manual, please contact one of following:

Dennis Kelley: (517) 373-4614

PAYMENT SCHEDULE

Compensation for this project shall be on an **actual cost plus fixed fee** basis.

CONSULTANT PAYMENT – Actual Cost Plus Fixed Fee:

All billings for services must be directed to the Department and follow the current guidelines. The latest copy of the "Professional Engineering Service Reimbursement Guidelines for Bureau of Highways" is available on MDOT's website. This document contains instructions and forms that must be followed and used for billing. Payment may be delayed or decreased if the instructions are not followed.

Payment to the Consultant for services rendered shall not exceed the maximum amount unless an increase is approved in accordance with the contract with the Consultant. Typically, billings must be submitted within 60 days after the completion of services for the current billing. The final billing must be received within 60 days of the completion of services. Refer to your contract for your specific contract terms.

Direct expenses, if applicable, will not be paid in excess of that allowed by the Department for its own employees in accordance with the State of Michigan's Standardized Travel Regulations. Supporting documentation must be submitted with the billing for all eligible expenses on the project in accordance with the Reimbursement Guidelines. The only hours that will be considered allowable charges for this contract are those that are directly attributable to the activities of this project.

The use of overtime hours is not acceptable unless prior written approval is granted by the MDOT Region Engineer/Bureau Director and the MDOT Project Manager. Reimbursement for overtime hours that are allowed will be limited to time spent on this project in excess of forty hours per person per week. Any variations to this rule should be included in the priced proposal submitted by the Consultant and must have prior written approval by the MDOT Region Engineer/Bureau Director and the MDOT Project Manager.

The fixed fee for profit allowed for this project is 11.0% of the cost of direct labor and overhead.

**ATTACHMENT A
CS 83013 JN 109981
Road Safety Audit**

The Road Safety Audit for the M-115/M-37/13 Road Intersection dated August 2011, prepared for MDOT by Opus International Consultants will be made available upon request.

Please contact:

Patricia Johnson
Cadillac TSC, Development Engineer
(231) 775-3486 ext 318
Johnsonp4@michigan.gov

